

# Catawba County EMS

VIPER Transition

PLEASE DON'T TURN YOUR RADIOS ON YET!!

# Why?

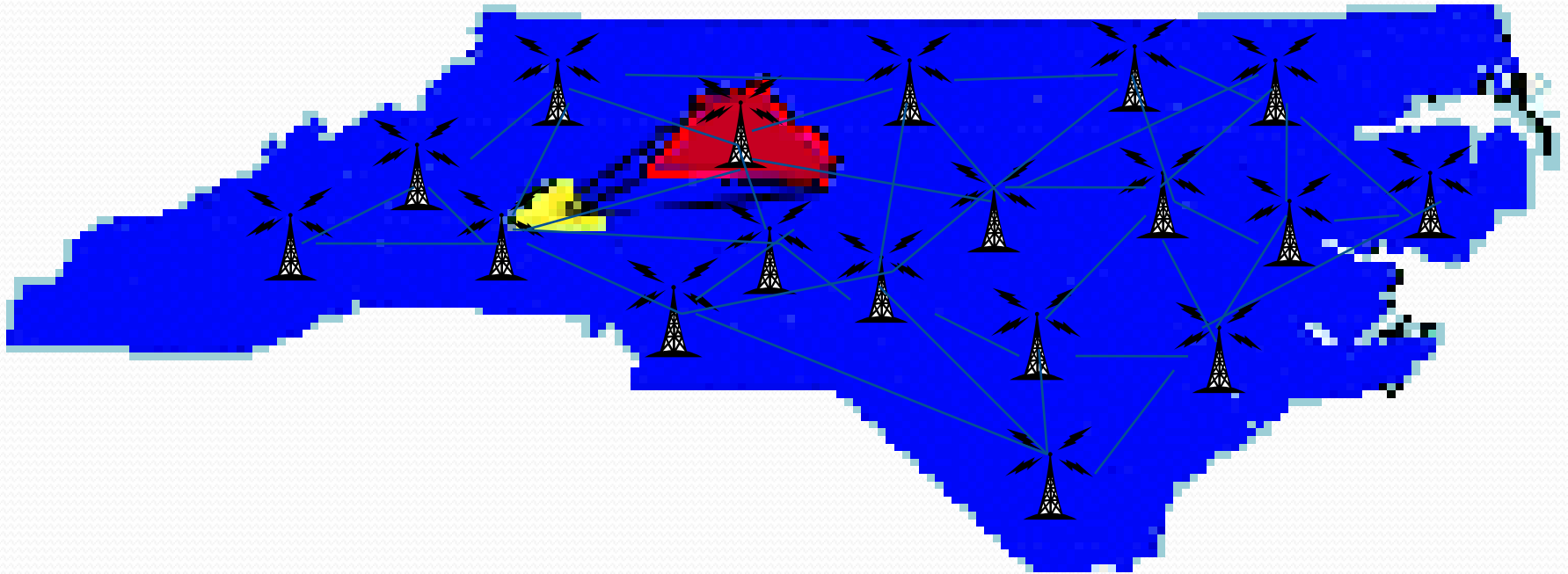
- Failures of the current system
- Federal Mandates for 2017 (6.25---Digital)
- Interoperability

Remembering the lessons of 9/11

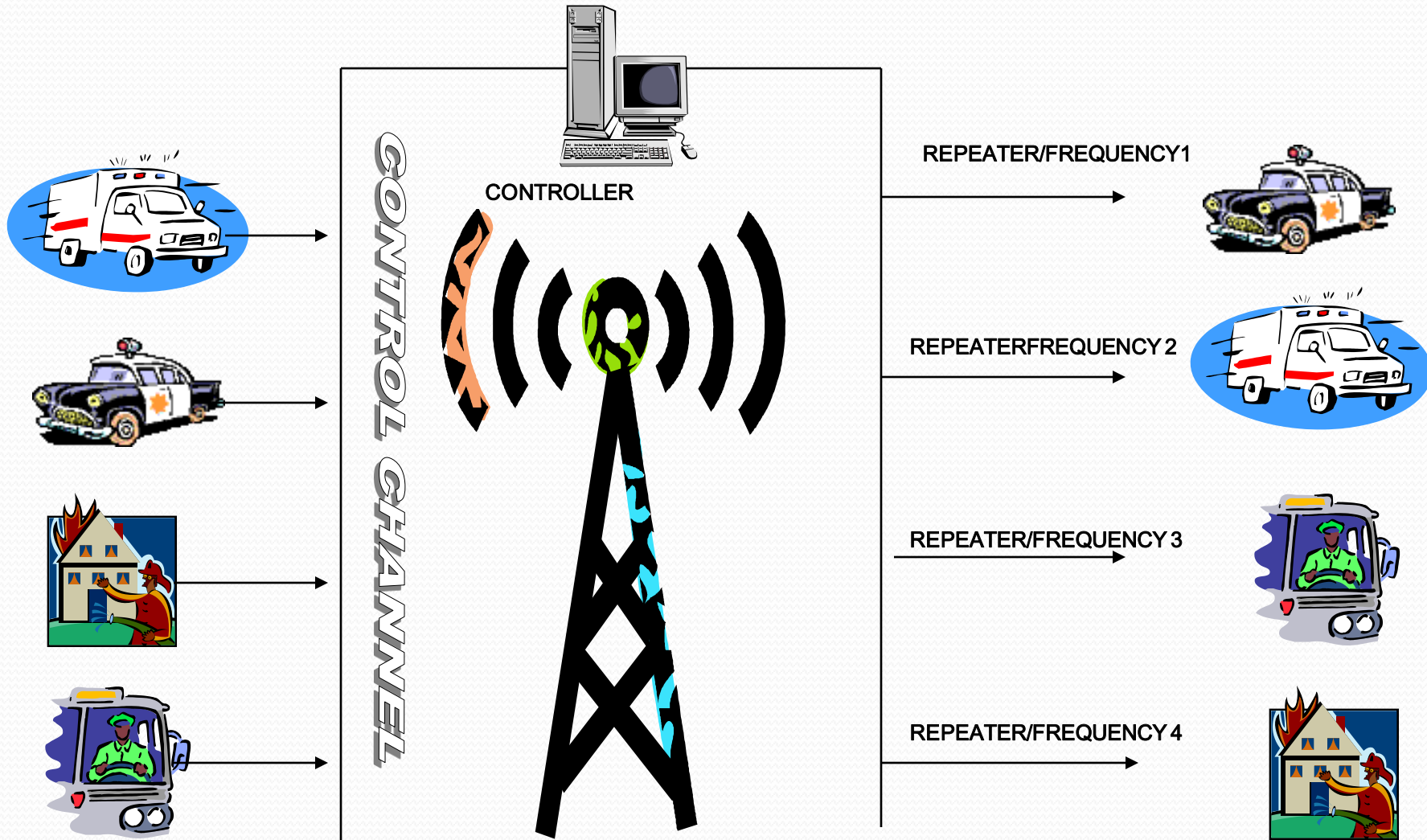
# VIPER

- Voice Interoperability Project for Emergency Responders
- Statewide Radio Network
- Administered by NCSHP
- Trunked Radio System
- 800 MHz band
- Allows for Local Jurisdictions to tap the backbone of system for daily operations
- Then allows for statewide interoperability

238 Towers, all interconnected by microwave



# Trunked Radio



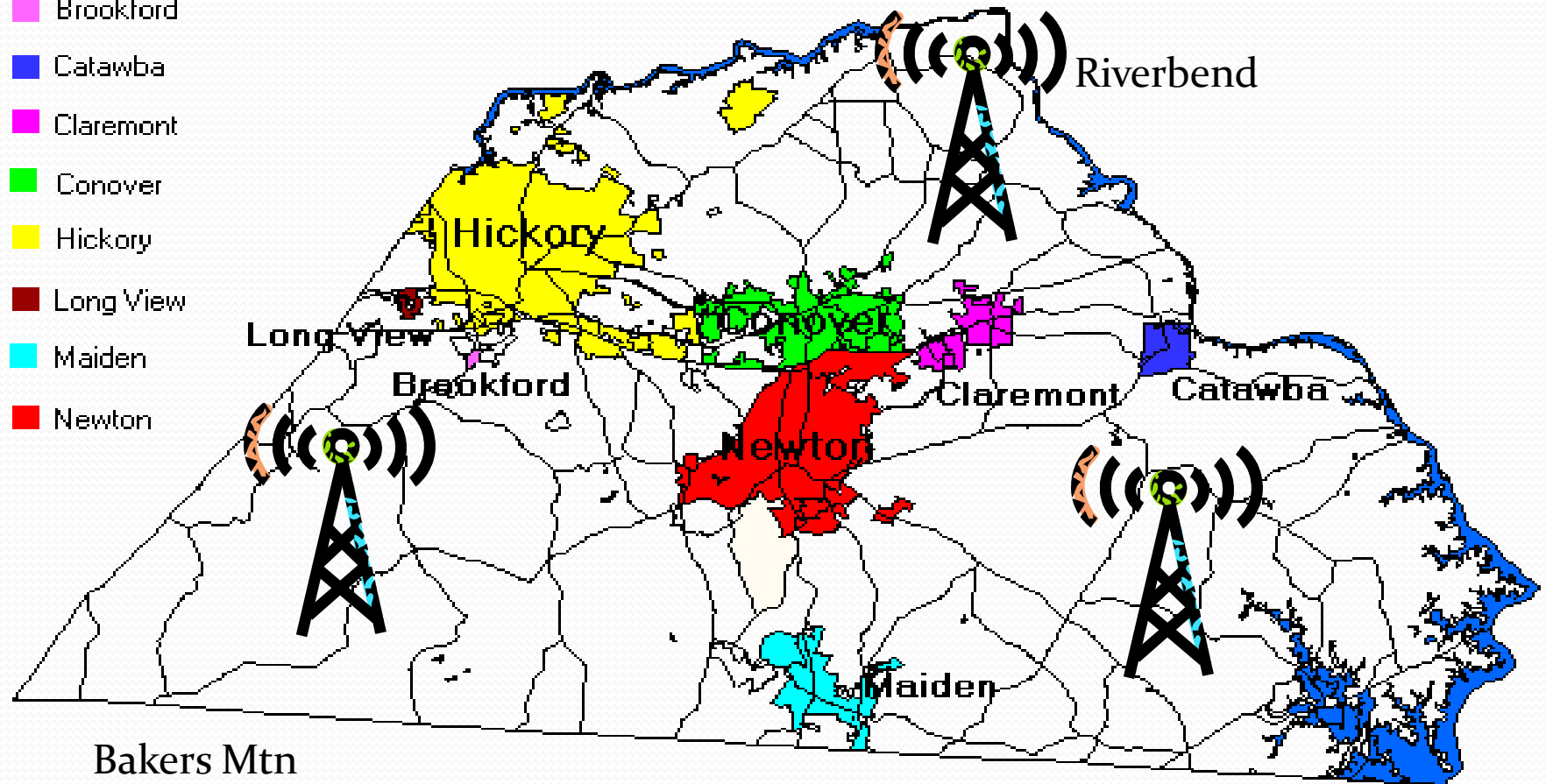
# Frequency Bands

- VHF Low-Band
- VHF High-Band
- UHF
- 800 mhz



# Catawba County

- Brookford
- Catawba
- Claremont
- Conover
- Hickory
- Long View
- Maiden
- Newton



Bakers Mtn

Cities and Towns

Anderson  
Mtn

# Advantages

- No infrastructure to maintain
- More capacity
- Statewide communications
- Local, Regional, and Statewide Interoperability
- Digital



# Disadvantages

- Digital
- Radios are big old bricks
- Walkies won't go “beep-beep-beep” when the tone goes off.

# Transition Phase

- Two VIPER portables per crew
- Truck radios will remain VHF—when new trucks are bought we will install VIPER radios
- One VHF portable will remain on each truck
- Spare radios at the bases will remain VHF



VIPER Radio



VHF Radio

Current VHF system will be patched to VIPER. Everything you hear on VIPER will be heard on VHF and vice versa

	<b>Zone A DISPATCH</b>	
<b>CHANNEL #</b>	<b>Talkgroup ID</b>	<b>Purpose/Description</b>
1	CCEMS PRIMARY	EMS DISPATCH
2	CCEMS 2	SECONDARY DISPATCH, SPEC SVCS
3	CCEMS OPERATIONS	NON-EMERGENCY OPERATIONAL TRAFFIC
4	CCEMS ADMINISTRATIVE	EMS ADMINISTRATION
5	CVMC	CATAWBA VALLEY MEDICAL CENTER VMN
6	FRMC	FRYE REGIONAL MEDICAL CENTER VMN
7	CATAWBA COUNTY RESCUE	RESCUE DISPATCH
8	CATAWBA COUNTY FIRE	COUNTY FIRE DISPATCH
9	HICKORY FIRE	HICKORY FIRE DISPATCH
10	HICKORY PD	HARD PATCH TO HPD EDACS SYSTEM
11	CATAWBA CO SO	CAT CO SHERIFFS DEPT DISPATCH
12	CONOVER PD	CONOVER PD DISPATCH
13	CATAWBA LAW DISP	BROOKFORD, CLAREMONT, CATAWBA, MAIDEN PD
14	TROOP F DIST 5	LOCAL HIGHWAY PATROL
15	EMERGENCY MANAGEMENT	EMERGENCY MANAGEMENT
16	CATAWBA COUNTY COMMON	CATAWBA COUNTY COMMON CHANNEL

	<b>ZONE B TACTICAL</b>	
<b>CHANNEL #</b>		
1	CATAWBA CO TACTICAL 1	CATAWBA COUNTY TACTICAL
2	CATAWBA CO TACTICAL 2	CATAWBA COUNTY TACTICAL
3	CATAWBA CO TACTICAL 3	CATAWBA COUNTY TACTICAL
4	CATAWBA CO TACTICAL 4	CATAWBA COUNTY TACTICAL
5	CATAWBA CO TACTICAL 5	CATAWBA COUNTY TACTICAL
6	CATAWBA CO TACTICAL 6	CATAWBA COUNTY TACTICAL
7	CATAWBA CO TACTICAL 7	CATAWBA COUNTY TACTICAL
8	CATAWBA CO TACTICAL 8	CATAWBA COUNTY TACTICAL
9	CATAWBA COUNTY M/A	FOR OUTSIDE AGENCIES COMING INTO CC
10	LAKE NORMAN	FOR OPERATIONS ON LAKE NORMAN
11	UNIFOUR M/A	ALEX, BURKE, CALDWELL, CATAWBA M/A
12	LZ West	
13	LZ Central	
14	LZ West	
15	EMERGENCY	EMERGENCY BUTTON CHANNEL
16		

	ZONE C MUTUAL AID	
CHANNEL#		
1	ALEXANDER EMS	ALEXANDER EMS DISP
2	ALEXANDER M/A	ALEXANDER CO MUTUAL AID
3	BURKE EMS	BURKE EMS
4	BURKE M/A	BURKE CO MUTUAL AID
5	CALDWELL EMS	CALDWELL EMS
6	CALDWELL M/A	CALDWELL CO MUTUAL AID
7	CLEVELAND EMS	CLEVELAND EMS DISPATCH
8	CLEVELAND M/A	CLEVELAND CO MUTUAL AID
9	LINCOLN EMS	LINCOLN EMS DISPATCH
10	LINCOLN M/A	LINCOLN CO MUTUAL AID
11	IREDELLEMS	IREDELLEMS
12	IREDELL M/A	IREDELL MUTUAL AID
13		
14		
15		
16		

	ZONE D HOSPITALS
CHANNEL #	
1	CALDWELL MEMORIAL
2	NC Memorial--CHAPEL HILL
3	CLEVELAND REGIONAL
4	CMC LINCOLN
5	CMC MERCY
6	CMC NORTHEAST
7	CMC UNIVERSITY
8	CMC-MAIN
9	DAVIE COUNTY HOSP
10	DUKE MEDICAL CENTER
11	DURHAM VA
12	FORSYTH MEM
13	GASTON MEMORIAL
14	GRACE
15	IREDELL MEMORIAL
16	Lake Norman RMC

	ZONE E HOSPITALS
CHANNEL#	
1	Kings Mountain
2	Mercy
3	Mission-Ashville
4	MOSES CONE
5	NC BAPTIST
6	PRESBY-HUNTERSVILLE
7	PRESBYTERIAN
8	PRESBYTERIAN HUNTERSVILLE
9	PRESBYTERIAN MATTHEWS
10	SALISBURY VA
11	VALDESE GENERAL
12	WATAUGA MEDICAL CENTER
13	WESLEY LONG
14	WILKES REGIONAL
15	
16	



	ZONE F STATEWIDE EVENT	
CHANNEL#		
1	ALPHA 1	MULTI AGENCY REGIONAL OR STATE RESPONSE
2	ALPHA 2	MULTI AGENCY REGIONAL OR STATE RESPONSE
3	ALPHA 3	MULTI AGENCY REGIONAL OR STATE RESPONSE
4	ALPHA 4	MULTI AGENCY REGIONAL OR STATE RESPONSE
5	BRAVO 1	MULTI AGENCY REGIONAL OR STATE RESPONSE
6	BRAVO 2	MULTI AGENCY REGIONAL OR STATE RESPONSE
7	BRAVO 3	MULTI AGENCY REGIONAL OR STATE RESPONSE
8	BRAVO 4	MULTI AGENCY REGIONAL OR STATE RESPONSE
9	CHARLY 1	MULTI AGENCY REGIONAL OR STATE RESPONSE
10	CHARLY 2	MULTI AGENCY REGIONAL OR STATE RESPONSE
11	CHARLY 3	MULTI AGENCY REGIONAL OR STATE RESPONSE
12	CHARLY 4	MULTI AGENCY REGIONAL OR STATE RESPONSE
13	DELTA 1	MULTI AGENCY REGIONAL OR STATE RESPONSE
14	DELTA 2	MULTI AGENCY REGIONAL OR STATE RESPONSE
15	DELTA 3	MULTI AGENCY REGIONAL OR STATE RESPONSE
16	DELTA 4	MULTI AGENCY REGIONAL OR STATE RESPONSE

	<b>ZONE G STATEWIDE CALLING</b>	
<b>CHANNEL #</b>		
1	STATEWIDE CALL	STATEWIDE "PARTY LINE"--IN ALL COMM CENTERS
2	STATEWIDE EMS	STATEWIDE EMS-SWITCHOVER AFTER STWD CALL
3	STATEWIDE SMAT	STATEWIDE SMAT-SWITCHOVER AFTER STWD CALL
4	VIPER WEST ROAM 1	STATEWIDE TRAVEL-COMMS WITH HOME CO
5	VIPER WEST ROAM 2	STATEWIDE TRAVEL-COMMS WITH HOME CO
6	VIPER WEST POOL 1	STATEWIDE UNIT TO UNIT COMMS OUTSIDE HOME CO
7	VIPER WEST POOL 2	STATEWIDE UNIT TO UNIT COMMS OUTSIDE HOME CO
8	NCEM WBO	WESTERN BRANCH EMERGENCY MANAGEMENT
9	NCEM EBO	EASTERN BRANCH EMERGENCY MANAGEMENT
10	NCEM CBO	CENTRAL BRANCH EMERGENCY MANAGENEMT
11	NCEM EOC	NORTH CAROLINA EOC DIRECT
12		
13		
14		
15		
16		

# These are repeater (non-VIPER) and simplex radio to radio frequencies

	ZONE H NATIONAL PUBLIC SAFETY	
CHANNEL#		
1	8CALL90	
2	8TAC91	
3	8TAC92	
4	8TAC93	
5	8TAC94	
6	8CALL90D	
7	8TAC91D	
8	8TAC92D	
9	8TAC93D	
10	8TAC94D	
11	T/A 1	
12	T/A 2	
13	T/A 3	
14	T/A 4	
15		
16		

# SMRS= State Medical Response System

	ZONE I SMRS
CHANNEL#	
1	SMRS HOME
2	COMMAND
3	LOGISTICS
4	STAGING
5	TRANSPORTATION
6	SMRS OPS 1
7	SMRS OPS 2
8	AIR MEDICAL
9	DISASTER MED
10	
11	
12	
13	
14	
15	
16	

	ZONE J SHP	
CHANNEL#		
1	TROOP A COMMON 2	
2	TROOP A MUTUAL AID	
3	TROOP B COMMON 2	
4	TROOP B MUTUAL AID	
5	TROOP C COMMON 2	
6	TROOP C MUTUAL AID	
7	TROOP D COMMON 2	
8	TROOP D MUTUAL AID	
9	TROOP E COMMON 2	
10	TROOP E MUTUAL AID	
11	TROOP F DIST 3	
12	TROOP F COMMON 2	
13	TROOP F MUTUAL AID	
14	TROOP G COMMON 2	
15	TROOP G MUTUAL AID	
16	TROOP H COMMON 2	

	ZONE K TOWER
CHANNEL#	
1	TOWERTG 1
2	TOWERTG 2
3	TOWERTG 3
4	TOWERTG 4
5	TOWERTG 5
6	TOWERTG 6
7	TOWERTG 7
8	TOWERTG 8
9	TOWERTG 9
10	TOWERTG 10
11	
12	
13	
14	
15	
16	

Name: SMAT 112408

## USE FOR SMAT and HOSPITAL PORTABLES AND MOBILES

Date: 11/24/08

Approved:

Meaning:

Analog Talk Groups

Digital Talk Groups

ZONE	POS 1	POS 2	POS 3	POS 4	POS 5	POS 6	POS 7	POS 8	POS 9	POS 10	POS 11	POS 12	POS 13	POS 14	POS 15	POS 16
VMA	Agape	Fiye Reg-Alex	Allegheny	Anson Reg	Anson Com	Ashe	Charles	Garban	Pungo	Beaufort	Bladen	J. Arthur	Asheville	Grace	Valdese	Caldwell
Alia	50043	50052	50052	50053	50072	50082	50092	50137	50222	50242	50252	50272	50472	50492	50502	50552
VMB	Halifax	Catawba	Fiye Reg	Chatham	Murphy	Chowan	Cleveland	Crawley	King Mt	Columbia	Craven	Cape Fear	Fayetteville VA	Womack	Davie County	Duplin
Alia	50569	50622	50624	50622	50672	50682	50692	50693	50702	50742	50762	50772	50792	50802	50852	50862
VMC	Duke Med	Durham VA	Durham Reg	Alamance	Granville	Our Community	Betsy Johnson	Haywood	Margaret Pender	Park Ridge	Roanoke	Lake Norman	Davis Reg	Jeddi	Harris Reg	Central Car
Alia	50672	50682	50692	50742	50772	50782	50792	50792	50822	50822	50842	50842	50842	50842	50842	50842
VMD	Lenoir	Angel Med	Madison Gen	McDowell	Carolina Med	Outer Banks	Spruce Pines	First Health	Onslow	UNC Hosp	Albemarle	Pender	Person	PIB Mem	Randolph	Sandhills
Alia	52562	52562	52562	52562	52562	52562	52562	52562	52562	52562	52562	52562	52562	52562	52562	52562
VME	Southeastern	Annie Penn	NC Regist	Forsyth Reg	Sampson Reg	Scotland Mem	Stanly Mem	Stokes	Hugh Chatham	Swain	Transylvania	Carolina Med	Maria Parham	Duke Health	Rox	Wilkes Reg
Alia	54002	54042	54052	54056	54242	54252	54252	54272	54282	54402	54442	54452	54462	54502	54542	54542
VMF	Wilson	Hoods Mem	Lincoln	St. Lucie	Rutherford	Carolina Med	Watauga	Blowing Rock	Wake Med	Heritage	Highlands	Wayne Mem	Brunswick	Goshen	Salisbury VA	Medical Park
Alia	54862	54872	54882	54872	54882	54882	54882	54882	54882	54882	54882	54882	54882	54882	54882	54882
VMO	Select	New Hanover	Rockingham	Carroll Family	Kindred	Mission	St. Joseph's	Franklin Reg	Boone Trail	Vance-Warren	Person	New Bern	Nash Gen	Carleton	Northern	NC Specialty
Alia	57157	57222	57320	57320	57408	57442	57442	57472	57502	57553	57573	57573	57573	57573	57573	57573
VMI	Lincoln	LifeCare	Rural Health	Wilson	Albemarle	Wake Med	Moses Cone	First Health Ric	First Health Mot	Washington	Wake Med MGB	Wake Med Nor	Presbyterian	Wendover	Bertha	Cabarrus
Alia	57707	57804	57844	57893	57910	57922	57952	57952	57952	57963	57972	57973	57982	57983	57984	58005
VMI	Gaston	Carolina Health	Carolina Spc	Mecklen	Carolina Rand	Carolina Merit	Wake	Highsmith	Presbyterian	Yn-County	Lumberton	New Hanover	Kinston	Snow Hill	Naval Hospital	Mason
Alia	58052	58203	58207	58210	58211	58232	58301	58302	58305	58334	58355	58401	58502	58506	58547	58714
VMJ	Marshall	Blue Ridge	Robeson	Thoma Rehab	State EMS	NorthEast Med	Hotelsville	Lexington	Special Ops	High Point	Wayne	Womack Hos	Johnson Mem	Camboro	Presbyterian	Carolina Pos
Alia	58753	58793	58801	58813	58813	58813	58813	58813	58813	58813	58813	58813	58813	58813	58813	58813
VMK	Presbyterian	Carolina Health	Carolina Univ	Morehead	Rowan	Cherokee	State EOC	PIB Disaster	PIB Adm	New Hanover Dis	New Hanover Ad	UNC Adm	UNC Dis	NC Com Health	Duke Adm	NC Bas Dis
Alia	75005	75012	75018	75022	75022	75022	75022	75022	75022	75022	75022	75022	75022	75022	75022	75022
VML	SMRS Home	SMRS Command	SMRS Logistics	SMRS Staging	SMRS Transportation	SMRS Ops 1	SMRS Ops 2	Alt Medical	Disaster Med							
Alia	75001	75002	75003	75004	75005	75006	75007	75008	75009							
TRPA	Dat 1	Dat 2	Dat 3	Dat 4	Dat 5	Dat 6	Dat 7	Dat 8	Hq Grp	Common 2	Mut Aid					
Alia	Dat 1	Dat 2	Dat 3	Dat 4	Dat 5	Dat 6	Dat 7	Dat 8	Hq Grp	COM2	MAID					
TRPB	Dat 1	Dat 2	Dat 3	Dat 4	Dat 5	Dat 6	Dat 7	Dat 8	Hq Grp	Common 2	Mut Aid					
Alia	Dat 1	Dat 2	Dat 3	Dat 4	Dat 5	Dat 6	Dat 7	Dat 8	Hq Grp	COM2	MAID					
TRPC	Dat 1	Dat 2	Dat 3	Dat 4	Dat 5	Dat 6	Dat 7	Dat 8	Hq Grp	Common 2	Mut Aid					
Alia	Dat 1	Dat 2	Dat 3	Dat 4	Dat 5	Dat 6	Dat 7	Dat 8	Hq Grp	COM2	MAID					
TRPD	Dat 1	Dat 2	Dat 3	Dat 4	Dat 5	Dat 6	Dat 7	Dat 8	Hq Grp	Common 2	Mut Aid					
Alia	Dat 1	Dat 2	Dat 3	Dat 4	Dat 5	Dat 6	Dat 7	Dat 8	Hq Grp	COM2	MAID					
TRPE	Dat 1	Dat 2	Dat 3	Dat 4	Dat 5	Dat 6	Dat 7	Dat 8	Hq Grp	Common 2	Mut Aid					
Alia	Dat 1	Dat 2	Dat 3	Dat 4	Dat 5	Dat 6	Dat 7	Dat 8	Hq Grp	COM2	MAID					
TRPF	Dat 1	Dat 2	Dat 3	Dat 4	Dat 5	Hq Grp	Common 2	Mut Aid								
Alia	Dat 1	Dat 2	Dat 3	Dat 4	Dat 5	Hq Grp	COM2	MAID								
TRPG	Dat 1	Dat 2	Dat 3	Dat 4	Dat 5	Hq Grp	Common 2	Mut Aid								
Alia	Dat 1	Dat 2	Dat 3	Dat 4	Dat 5	Hq Grp	COM2	MAID								
TRPH	Dat 1	Dat 2	Dat 3	Dat 4	Dat 5	Hq Grp	Common 2	Mut Aid								
Alia	Dat 1	Dat 2	Dat 3	Dat 4	Dat 5	Hq Grp	COM2	MAID								
BTI	Alpha 1	Alpha 2	Alpha 3	Alpha 4	Brao 1	Brao 2	Brao 3	Brao 4	Charlie 1	Charlie 2	Charlie 3	Charlie 4	Delta 1	Delta 2	Delta 3	Delta 4
Alia	Alpha 1	Alpha 2	Alpha 3	Alpha 4	Brao 1	Brao 2	Brao 3	Brao 4	Charlie 1	Charlie 2	Charlie 3	Charlie 4	Delta 1	Delta 2	Delta 3	Delta 4
WPS	81a300	81a301	81a302	81a303	81a304	81a305	81a306	81a307	81a308	81a309	81a310	81a311	81a312	81a313	81a314	81a315
Alia	81a300	81a301	81a302	81a303	81a304	81a305	81a306	81a307	81a308	81a309	81a310	81a311	81a312	81a313	81a314	81a315
WPSR	81a300R	81a301R	81a302R	81a303R	81a304R	81a305R	81a306R	81a307R	81a308R	81a309R	81a310R	81a311R	81a312R	81a313R	81a314R	81a315R
Alia	81a300R	81a301R	81a302R	81a303R	81a304R	81a305R	81a306R	81a307R	81a308R	81a309R	81a310R	81a311R	81a312R	81a313R	81a314R	81a315R
SW	SWDECAL	SWDELAU	SWDEPDR	SWDEEMS	SWDEGEN	SMATSWD										
Alia	SWCALL	SWLAU	SWPDR	SWEMS	SWGEN	SMATSWD										
VER	VEROAM1	VEROAM2	VEROAM3	VEROAM4	VEROAM5	VEROAM6	VEROAM7	VEROAM8	VEROAM9	VEROAM10	VEROAM11	VEROAM12				
Alia	VEROAM1	VEROAM2	VEROAM3	VEROAM4	VEROAM5	VEROAM6	VEROAM7	VEROAM8	VEROAM9	VEROAM10	VEROAM11	VEROAM12				
NCEM	ESB	CBO	WBO	EOC	LZ-EAST	LZ-CENTRAL	LZ-WEST									
Alia	ESB	CBO	WBO	EOC	LZ-EAST	LZ-CENT	LZ-WEST									
NCPL	VEPOOL1	VEPOOL2	VEPOOL3	VEPOOL4	VEPOOL5	VEPOOL6	VEPOOL7	VEPOOL8	VEPOOL9	VEPOOL10	VEPOOL11	VEPOOL12				
Alia	VEPOOL1	VEPOOL2	VEPOOL3	VEPOOL4	VEPOOL5	VEPOOL6	VEPOOL7	VEPOOL8	VEPOOL9	VEPOOL10	VEPOOL11	VEPOOL12				